Remarks

Applicant respectfully requests replacement of originally filed informal drawings sheets, and consideration of previously submitted and recently submitted information disclosure statements.

Drawings

Appendix A contains two (2) sheets of formal drawings that replace sheets nos. 11-13 (Figs. 21-28) of the originally filed informal drawings. Applicant respectfully submits that no new matter has been added by this amendment.

Request for Consideration and Acknowledgement of Previously Submitted Information Disclosure Statements

Applicant respectfully requests the Examiner's consideration and acknowledgement of the references listed in the following previously submitted Information Disclosure Statements and a recently submitted Information Disclosure Statement, copies of which are provided herewith in the attached **Appendix**, along with the associated acknowledgment pages:

Append	ix Date	Description
В	01/02/04	IDS via facsimile (29 U.S. Patents; 17 Other Prior Art Documents)
В	01/02/04	IDS via facsimile (6 U.S. Patents)
С	01/20/05	IDS via facsimile (1 Other Prior Art Document)

Request for Determination of Patent Term Adjustment

The Patent Term Adjustment to date for the instant application is 85 days. Applicant respectfully submits that this amendment and the Information Disclosure Statement recently filed on 20 January 2005 may act to reduce the Patent Term Adjustment. Applicant respectfully requests that the Patent Term Adjustment be recalculated after entry of this amendment and after consideration of the Information Disclosure Statement recently filed on 20 January 2005.

Summary and Conclusions

Replacement drawing sheets 11 and 12 have been filed for Figs. 21-28. Applicant respectfully requests consideration of two previously filed Information Disclosure Statements, and one recently filed Information Disclosure Statement. Applicant respectfully submits that no new matter has been added by this amendment. Applicant respectfully submits that the instant application is now in the proper form for Issuance.

Respectfully Submitted,

Dinnin & Dunn, P.C. 2701 Cambridge Court, Suite 500 Auburn Hills, MI 48326 5701-00298

21 January 2005

Kurt L. VanVoorhies Registration No. 38,643

Phone: 248-364-2100 Facsimile: 248-364-2200

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Application No. 10/604,716 Request and Submission dated 21 January 2005 Reply to Notice of Allowance mailed on 05 January 2004

Amendments to the Drawings:

Appendix A contains two (2) sheets of formal drawings that replace sheets nos. 11-13 (Figs. 21-28) of the originally filed informal drawings. Applicant respectfully submits that no new matter has been added by this amendment.

PATENT

Appendix A

Replacement Drawing Sheets 11-12 (Figs. 21-28)

Application'No. 10/604,716 Request and Submission dated 21 January 2005 Reply to Notice of Allowance mailed on 05 January 2004

Appendix B

Information Disclosure Statements Filed on 2 January 2004

Auto-Reply Facsimile Transmission

TO:

Fax Sender at 9062976014

Fax Information

Date Received: Total Pages:

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13 (including cover page)

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DINNIN & DUNN, P.C.

MICHAEL R. DINNIN ROBERT A. DUNN MICHAEL T. RAGGIO LAURENCE D. BEGIN JONATHAN F. YATER ATTORNEYS AND COUNSELORS TOP OF TROY BUILDING 755 WEST BIG BEAVER ROAD TROY, MICHIGAN 48684 RURT L. VANVOCHHIES, PH D.,

(248) 382-2800 TELEFACRISILE (848) 888-2884 E-MAIL DIRNINGURNOADL.COM WEDDITE WWW.DIRKINGURN.COM LYMAN A. LYON (1864-8000) LLOYD M. FORSTER (1818-1888)

FACSIMILE COVER SHEET

To: Group 2812

FAX #: 703-872-9306

Prom: Kort L. VanVoorbies 2 January 2004

Total number of pages (including cover sheet): 13

In re Application of:

James P. Ebling et al. Group: 2812

Serial No.: 10/604,716

Examiner

Piled: August 12, 2003

Attorney Docket No.: 5701-00298

For: MULTI-BEAM ANTENNA

Facsimile Contents:

- 2. INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. §§ 1.97(b)(3) and 1.98(d)(1) 2

- pages;
 FORM PTO-1449 6 pages;
 INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. §§ 1.97(b)(3) 2 pages;
 FORM PTO-1449 1 page;
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Attorney Docket No: 5701-00298

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

James P. Ebling et al.

Group: 2812

Serial No.: 10/604,716

Examiner:

Filed: August 12, 2003

Attorney Docket No.: 5701-00298

For: MULTI-BEAM ANTENNA

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. §§ 1.97(b)(3) and 1.98(d)(1)

2 January 2004

Mail Stop DD Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

Applicant submits this Statement in accordance with the duty of disclosure under 37 C.F.R. §1.56 and §§1.97-1.98, and more particularly in accordance with 37 C.F.R. §1.97(b)(3), i.e., filing the statement before the mailing date of a first Office action on the merits.

Identification of Prior Application in Which Listed Information Was Already Cited and for Which No Copies Are Submitted or Need Be Submitted Under 37 C.F.R. §1.98(d)(1)

This application relies, under 35 U.S.C. § 120, on the earlier filing date of prior application Serial No. 10/202,242, filed on July 23, 2002, now U.S. Patent No. 6,606,077.

Enclosed herewith is the List of References Cited by Applicant (PTO-1449). These references were submitted to, and/or cited by, the Office in the prior applications and, therefore, are not required to be provided in this application.

CERTIFICATE OF MAILING/TRANSMISSION (37 C.F.R. section 1.8(a))

I hereby certify that, on the date shown below, this correspondence is being:

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(type or print name of person certifying)

Kurt L. VanVoorhies

Date: 2 January 2004

As all the references listed on attached Form PTO-1449 are in English, under 37 C.F.R. §1.98(a)(3), no further commentary is believed to be necessary. Applicant respectfully solicits the Examiner's consideration of the cited references and entry thereof into the record of this application.

Applicant, by submitting this Information Disclosure Statement, is attempting to fully comply with the duty of candor and good faith mandated by 37 C.F.R. §1.56. As such, this Information Disclosure Statement is not intended to constitute an admission that any of the enclosed references, or other information referred to therein, is otherwise "material to patentability," as that term is defined in that section.

Dinnin & Dunn, P.C. 2701 Cambridge Court, Suite 500 Auburn Hills, MI 48326 5701-00298 4 January 2004

Enclosure

Respectfully submitted,

Kurt L. VanVoorhies Registration No. 38,643

Phone: 248-364-2100 Facsimile: 248-364-2200



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_	AA	3,761,936	9/25/1973	Archer et al.	343	754		
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	AC	4,222,054	9/9/1980	Capps	343	754		
. ·	AĐ	4,268,831	5/19/1981	Valentino et al.	343	754		
	AE	4,288,795	9/8/1981	Shelton	343	754		
	AF	4,638,322	1/20/1987	Lamberty	343	761	,	
	AG	4,641,144	2/3/1987	Prickett	343	754		
	АН	4,845,507	7/4/1989	Archer et al.	343	754	:	
	AI.	4,983,237	1/8/1991	Alfing	156	83		
	AJ	5,099,253	3/24/1992	Archer	343	754		
	AK	5,204,686	4/20/1993	Petrelis et al.	342	374		
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	AR	G. Bekefi, and G. W. Farr vol. 34, pp. 790–803, 195	nell, "A homogen	ous dielectric sphere as a mi-	crowave lens,"	Canadian Journ	al of Physics,	
	AS	G. Toraldo di Francia, "S 1961.	pherical lenses for	r infrared and microwaves,".	Journal of App	lied Physics, vol	. 32, pp. 2051,	
	AT	Tomos L. Ap Rhys, "The 497–506, July 1970.	design of radially	symmetric lenses," IEEE Tr	ans. on Antenn	as and Propagat	ion, AP-18, pp	
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	ВА	5,274,389	12/28/1993	Archer et al.	343	754			
	вв	5,347,287	9/13/1994	Speciale	342	375	-		
	вс	5,451,969	9/19/1995	Toth et al.	343	781 CA			
	BD	5,548,294	8/20/1996	Sturza	342	372			
	BE	5,576,721	11/19/1996	Hwang et al.	343	753 .			
	BF	5,712,643	1/27/1998	Skladany	343	700 MS			
	ВG	5,745,082	4/28/1998	Alder	343	753			
	вн	5,821,908	10/13/1998	Sreenivas	343	911 R			
	ВІ	5,828,344	10/27/1998	Alder et al.	343	755			
	·BJ	5,874,915	2/23/1999	Lee et al.	342	375	,		
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	BR	L. C. Gunderson, "An electromagnetic analysis of a cylindrical homoge-nous lens," IEEE Trans. on Antennas and Propagation, AP-20, pp. 476–479, July 1972.							
,	BS	S. Lee, M. S. Sheshadri, V. Jamnejad, and R. Mittra, "Refraction at a curved dielectric interface: geometrical optics solution," IEEE Trans. on Microwave Theory and Techniques, MTT-30, no. 1, pp. 12–19, Jan 1982.							
	ВТ	M. N. Afsar, "Dielectric pp. 439-442,1985.	M. N. Afsar, "Dielectric measurements of common polymers at millimeter wavelength range," in IEEE MTT-S Digest, pp. 439-442,1985.						
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	CA	5,894,288	4/13/1999	Lee et al.	343	770		
	СВ	5,913,549	6/22/1999	Skladany	29	600		
	cc	5,926,134	7/20/1999	Pons et al.	342	368		
	CD	6,031,501	2/29/2000	Rausch et al.	343	754	·	
	CE	6,046,703	4/4/2000	Wang et al.	343	795		
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	CR	J. Ashkenazy, E. Levine, no. 3, pp. 111-112, Jan 1		Radiometric measurement of a	ntenna efficie	ncy," in Electron	. Lett., vol. 21,	
	cs	K. S. Yngvesson, T. L. Korzeniowski, Y. S. Kim, E. L. Kollberg, and J. F. Johansson, "The tapered slot antenna - a new integrated element for mm-wave applications," IEEE Trans. on Microwave Theory and Techniques, MTT-37, no. 2, pp. 365-374, Feb. 1989.						
	СТ	J. Sanford, "A luneberg-l	ens update," IEEF	E Antennas and Propagation N	lagazine, vol.	37, no. 1, pp. 76	-79, 1995.	
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	DS	K. K. Chan, S. K. Rao, G. A. Morin, and M. Q. Tang, "Triangular ray-tube analysis of dielectric lens antennas," IEEE Trans. on Antennas and Propagation, vol. 45, no. 8, pp. 1277–1285, Aug 1997.						
	DR	S. Sugawara, Y. Maita, K. pattern," in 1997 IEEE MT	Adachi, K. Mori T-S Int. Micorw	, and K. Mizuno, "A mm-wave ave Symp. Dig., Anaheim, CA	tapered slot, June 1997,	antenna with impp. 959-962.	proved radiation	
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pplication Serial No.: 10/__4,716

Attorney Docket No: 5701-00298

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

in re Application of:

James P. Ebling et al.

Serial No.: 10/604,716

Filed: August 12, 2003

For: MULTI-BEAM ANTEŃNA/

Group: 2812

Examiner:

Attorney Docket No.: 5701-00298

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. §§ 1.97(b)(3)

2 January 2004

Mail Stop DD Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

Applicant submits this Statement in accordance with the duty of disclosure under 37 C.F.R. §1.56 and §§1.97-1.98, and more particularly in accordance with 37 C.F.R. §1.97(b)(3), i.e., filing the statement before the mailing date of a first Office action on the merits. Enclosed herewith is the List of References Cited by Applicant (PTO-1449). As the instant application was filed after June 30, 2003, in accordance with the OG Notice of 05 August 2003, copies of the cited U.S. patents cited therein are not submitted herewith.

As all the references listed on attached Form PTO-1449 are in English, under 37 C.F.R. §1.98(a)(3), no further commentary is believed to be necessary. Applicant respectfully solicits the Examiner's consideration of the cited references and entry thereof into the record of this application.

CERTIFICATE OF MAILING/TRANSMISSION (37 C.F.R. section 1.8(a))

I hereby certify that, on the date shown below, this correspondence is being:

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Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Signature

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Kurt L. VanVoorhies

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(type or print name of person certifying)

Date: 2 January 2004

Application Serial No.: 10, 34,716

Attorney Docket No: 5701-00298

lan Corling

Applicant, by submitting this Information Disclosure Statement, is attempting to fully comply with the duty of candor and good faith mandated by 37 C.F.R. §1.56. As such, this Information Disclosure Statement is not intended to constitute an admission that any of the enclosed references, or other information referred to therein, is otherwise "material to patentability," as that term is defined in that section.

Dinnin & Dunn, P.C. 2701 Cambridge Court, Suite 500 Auburn Hills, MI 48326 5701-00298 4 January 2004

Enclosure

Respectfully submitted,

Kurt L. VanVoorhies Registration No. 38,643

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Based on Form	PTO-144	.9		ATTY. DOCKET NO. SERIAL NO. Page 1					
(3/90)				5701-00298		10/604,716			
				APPLICANT					
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPLICABLE		
	AA	3,683,379	8/8/1972	Saddler et al.	343	7 ED			
	АВ	5,264,859	11/23/1993	Lee et al.	343	754			
	AC	5,313,213	5/17/1994	Neumann et al.	342	165			
	AD	5,446,470	8/29/1995	Avingnon et al.	343	713			
	AE	5,963,172	10/5/1999	Pfizenmaier et al.	343	721			
	AF	6,606,077	8/12/2003	Ebling et al.	343	911L			
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Appendix C

Information Disclosure Statement Filed on 21 January 2005

Auto-Reply Facsimile Transmission



TO:

Fax Sender at 1 248 364 2200

Fax Information Date Received:

1/20/2005 5:03:12 PM [Eastern Standard Time]

Total Pages: 11 (including cover page)

ADVISORY: This is an automatically generated return receipt confirmation of the facsimile transmission received by the Office. Please check to make sure that the number of pages listed as received in Total Pages above matches what was intended to be sent. Applicants are advised to retain this receipt in the unlikely event that proof of this facsimile transmission is necessary. Applicants are also advised to use the certificate of facsimile transmission procedures set forth in 37 CFR 1.8(a) and (b), 37 CFR 1.6(f). Trademark Applicants, also see the Trademark Manual of Examining Procedure (TMEP) section 306 et seq.

Received Cover Page Sent By: DINNIN & DUNN, P.C.;

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DINNIN & DUNN, P.C.

ROBERT A. DUNN MICHAEL T. RADGIO

ATTORNEYS AND COUNSELORS 2701 CAMBRIDGE COURT SUITE SOD

KURT L. VANVOORHIES, PH.D., P.E. AUBURN HILLS, MICHIGAN 48326

(248) 384-2100

FACSIMILE COVER SHEET

Mail Stop Issue Fee / Group 2821 : Examiner Minh D. A

703-872-9306 From: Kurt L. Van Voorhies

20 Јапиагу 2005

Total number of pages (including cover sheet): 11

In re Application of:

James P. Ebling et al. Serial No.: 10/604,716

Group: 2821 Examiner: Minh D. A

Attorney Docket No.: 5701-00298 Filed: August 12, 2003

For: MULTI-BEAM ANTENNA

Facsimile Contents;

- Transmittal Form 1 page
 Credit Card Payment Form in the amount of \$180 1 page;
 INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. §§ 1.97(d) and 1.97(e) 2 pages;
 FORM PTO-1449 1 page;
 Item AR: Communication pursuant to Article 96(1) EPC (including associated claims) 5 pages; and

Certificate of Mailing (on items 1 and 3).

CONFIDENTIAL: The information contained in this transmission is intended only for the use of the addressee(s) named above. If the reader of this message is not the named addresses, or the addresses, agent or employee responsible for delivering the message to the addressee(s), please note that any dissumination, distribution or copying of the communication is strictly prohibited. Anyone who receives this communication in strictly prohibited. Anyone who receives this communication in error should notify us immediately by telephone (collect if necessary) at the number listed above and return the original message to us via. U.S. Mall.

PAGE 1/11 * RCVD AT 1/20/2005 5:03:12 PM [Eastern Standard Time] * SVR:USPTO-EFXRF-IA * DNS:8729306 * CSID:1 248 364 2200 * DURATION (mm-s):03-52

Application Serial No.: 10/604,716 Attorney Docket No: 5701-00298

Information Disclosure Statement Submitted on 20 January 2005

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.

: 10/604,716

Confirmation No.: 1715

Applicant

: James P. EBLING et al

Filed

: 12 August 2003

TC/A.U.

: 2821

Examiner

: Minh D. A

Title

: MULTI-BEAM ANTENNA

Docket No.

: 5701-00298

Customer No.

: 26659

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. §§ 1.97(d) and 1.97(e)

20 January 2005

Mail Stop Issue Fee **Commissioner for Patents** P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

Applicant submits this Statement in accordance with the duty of disclosure under 37 C.F.R. §1.56 and §§1.97-1.98, and more particularly in accordance with 37 C.F.R. §§1.97(d) and 1.97(e), i.e., filing the statement after the mailing date of any of a final action under § 1.113, a notice of allowance under § 1.311, or an action that otherwise closes prosecution in the application, and is accompanied by the fee set forth in § 1.17(p) and the following statement: The undersigned hereby certifies that each item of information contained in the information disclosure statement (i.e. the Communication pursuant to Article 96(2) EPC responsive to the claims, the latter of which are included herewith for purposes of understanding the Communication) was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this information disclosure statement.

CERTIFICATE OF MAILING/TRANSMISSION (37 C.F.R. section 1.8(a))

X

I hereby certify that, on the date shown below, this correspondence is being:

deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

FACSIMILE

transmitted by facsimile to the Patent and

Trademark Office, Fax No. (703) 872-9306.

Date: ______ 20 January 2005

Kurt L. VanVoorhies (type or print name of person certifying) As all the references listed on attached Form PTO-1449 are in English, under 37 C.F.R. §1.98(a)(3), no further commentary is believed to be necessary. Applicant respectfully solicits the Examiner's consideration of the cited references and entry thereof into the record of this application.

Applicant, by submitting this Information Disclosure Statement, is attempting to fully comply with the duty of candor and good faith mandated by 37 C.F.R. §1.56. As such, this Information Disclosure Statement is not intended to constitute an admission that any of the enclosed references, or other information referred to therein, is otherwise "material to patentability," as that term is defined in that section.

A Credit Card Payment Form in the amount of \$180 is enclosed herewith for payment of the fees under 37 C.F.R. §§ 1.17(p). The Commissioner is authorized to charge any deficiencies or credit any overpayments -- that cannot otherwise be made to the credit card -- to Deposit Account 04-1131.

Dinnin & Dunn, P.C. 2701 Cambridge Court, Suite 500 Auburn Hills, MI 48326 5701-00298 20 January 2005

Enclosure

Respectfully submitted,

Registration No. 38,643

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Facsimile:

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